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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09 648,864	08/25/2000	Howard M Johnson	UF-243X	6790
23557	7590 10-21-2002			
SALIWANCHIK LLOYD & SALIWANCHIK A PROFESSIONAL ASSOCIATION 2421 N.W. 41ST STREET			EXAMINER	
			ANDRES, JANET L	
SUITE A-1 GAINESVILLE, FL 326066669			ART UNIT	PAPER NUMBER
			1646	THE R. NO. MIDER
			DATE MAILED: 10/21/2002	14

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No.	Applicant(s)				
Office Action Summary		09/648,864	JOHNSON ET AL.				
		Examiner	Art Unit				
		Janet L Andres	1646				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet w	vith the correspondence address				
THE - Externation - If the - If NO - Failt - Any	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 If SIX (6) MONTHS from the mailing date of this communication. If period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period ware to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of thi will apply and will expire SIX (6) MO cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BEANDONED (35 U.S.C. § 133).				
	Perpansive to communication(a) filed on 10.1	W. 2002					
1)⊡							
2a)□	,						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
	4)⊡ Claim(s) <u>25, 30-39</u> is/are pending in the application.						
,	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
_	Claim(s) <u>25, 30-39</u> is/are rejected.						
	Claim(s) is/are objected to.						
	8) Claim(s) are subject to restriction and/or election requirement.						
	ion Papers	•					
9)	The specification is objected to by the Examiner	·.					
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
* (3. Copies of the certified copies of the prior application from the International Bur See the attached detailed Office action for a list of the control of t	eau (PCT Rule 17.2(a)).	_				
	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
ر السارة Attachmen		o priority under 55 0.5.0	. 33 120 dilu/01 121.				
1)	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)				

Application/Control Number: 09/648,864 Page 2

Art Unit: 1646

RESPONSE TO AMENDMENT

1. Applicant's amendment filed 10 July 2002 is acknowledged. Claims 25 and 30-39 are pending in this application. The text of those sections of Title 35, U.S. Code, not included in this action can be found in a prior office action.

Claim Rejections Withdrawn

- 2. The rejections of claims 25-39 under 35 U.S.C. 112, first paragraph, are withdrawn in response to Applicant's arguments.
- 3. The rejection of claims 26-32 and 36 under 35 U.S.C. 112, second paragraph, is withdrawn in response to Applicant's amendment.
- 4. The rejection of claims 35, 36, and 33-39 under 35 U.S.C. 102(b) is withdrawn in response to Applicant's amendment.

Claim Rejections Maintained

5. The rejection of claims 30-39 under 35 U.S.C. 103(a) is maintained for reasons of record in the office action of paper no. 10 and newly applied to claim 25.

Applicant argues that one of ordinary skill in the art would not expect interferon tau to have the same properties as interferon alpha, even though it binds to the same receptor.

Applicant points to the teachings of Subramaniam et al. as indicating that interferon tau recognizes the receptor differently and has different activities, and concludes that one of ordinary skill could not extrapolate from other interferons to interferon tau.

Applicant's arguments have been fully considered but have not been found to be persuasive. Subramaniam et al. teaches that a subspecies of interferon alpha binds the receptor with higher affinity than interferon tau, and teaches that this difference may be responsible for

Art Unit: 1646

the higher toxicity of interferon alpha. However, Subramanian et al. teaches that the antiproliferative and antiviral properties of interferon alpha and interferon tau are very similar, as is the ability to induce 2'5'-oligoadenylate synthetase activity (p. 12270). Subramanian et al. further teaches that the ability of interferon tau to activate signal transduction molecules associated with interferon signaling is very similar to that of interferon alpha, and concludes that cytotoxicity, unlike antiviral and antiproliferative activity, occurs only at high levels of receptor occupancy. Thus, one of ordinary skill in the art would have expected interferon tau to function as well as interferon alpha, because, like WO 97/39127, Subramanian et al. teaches that its therapeutic properties are very similar. One of ordinary skill would recognize that cytotoxic effects are distinct from the therapeutic effects of interferon alpha, because Subramanian et al. teaches that they require much higher levels of receptor occupancy and are not correlated with the activation of signal transduction systems (p. 12274). That Subramanian et al, like WO 97/39127, teaches that interferon tau is less toxic would provide additional motivation for one of ordinary skill in the art to use it in place of interferon alpha.

NO CLAIM IS ALLOWED.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janet Andres, Ph.D., whose telephone number is (703) 305-0557. The examiner can normally be reached on Monday through Friday from 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler, Ph.D., can be reached at (703) 308-6564. The fax phone number for this group is (703) 872-9306 or (703) 872-9307 for after final communications.

Application/Control Number: 09/648,864

Art Unit: 1646

Page 4

Communications via internet mail regarding this application, other than those under U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [yvonne.eyler@uspto.gov].

All Internet email communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark Office on February 25, 1997 at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Janet Andres, Ph.D. October 17, 2002

VONNE EYLER, PA.D SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600